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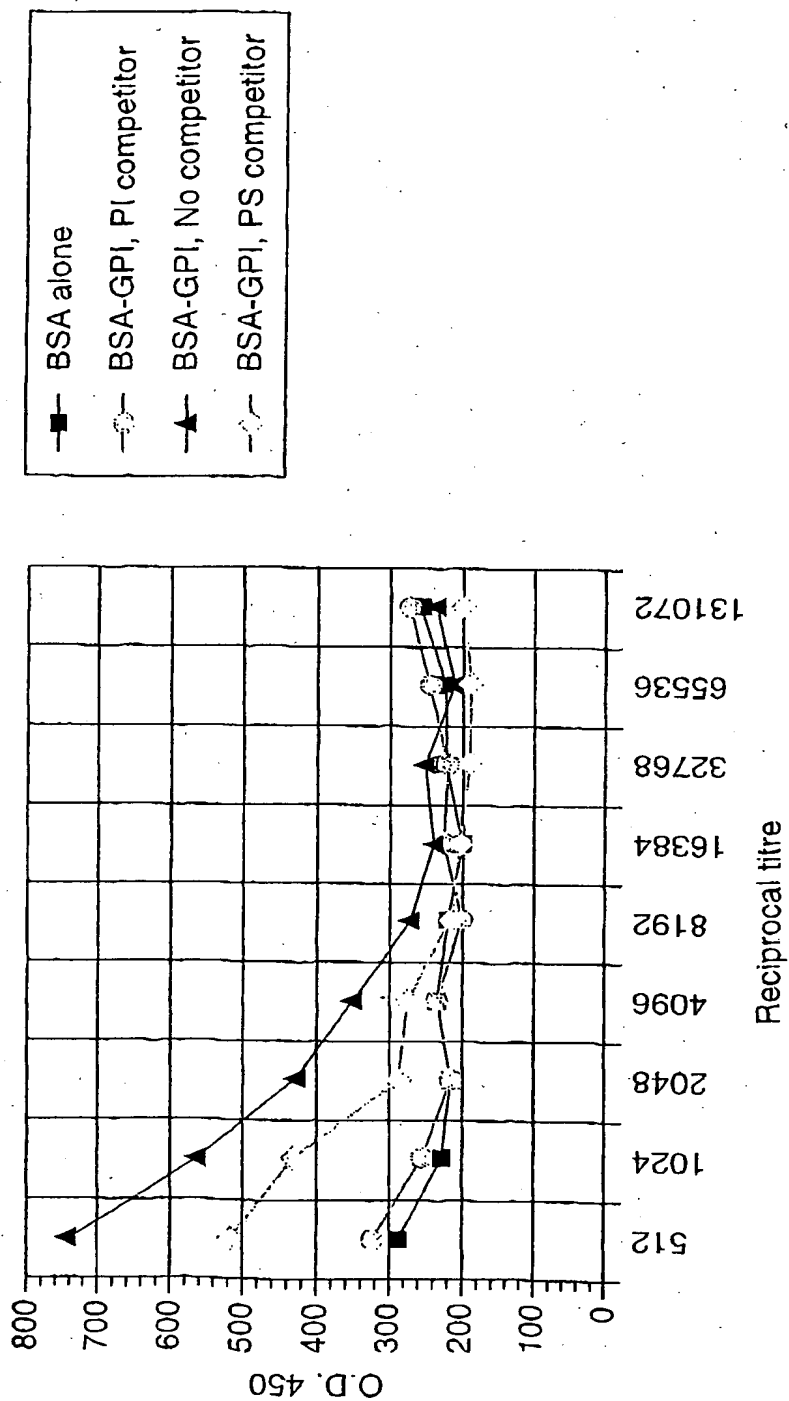


Figure 1

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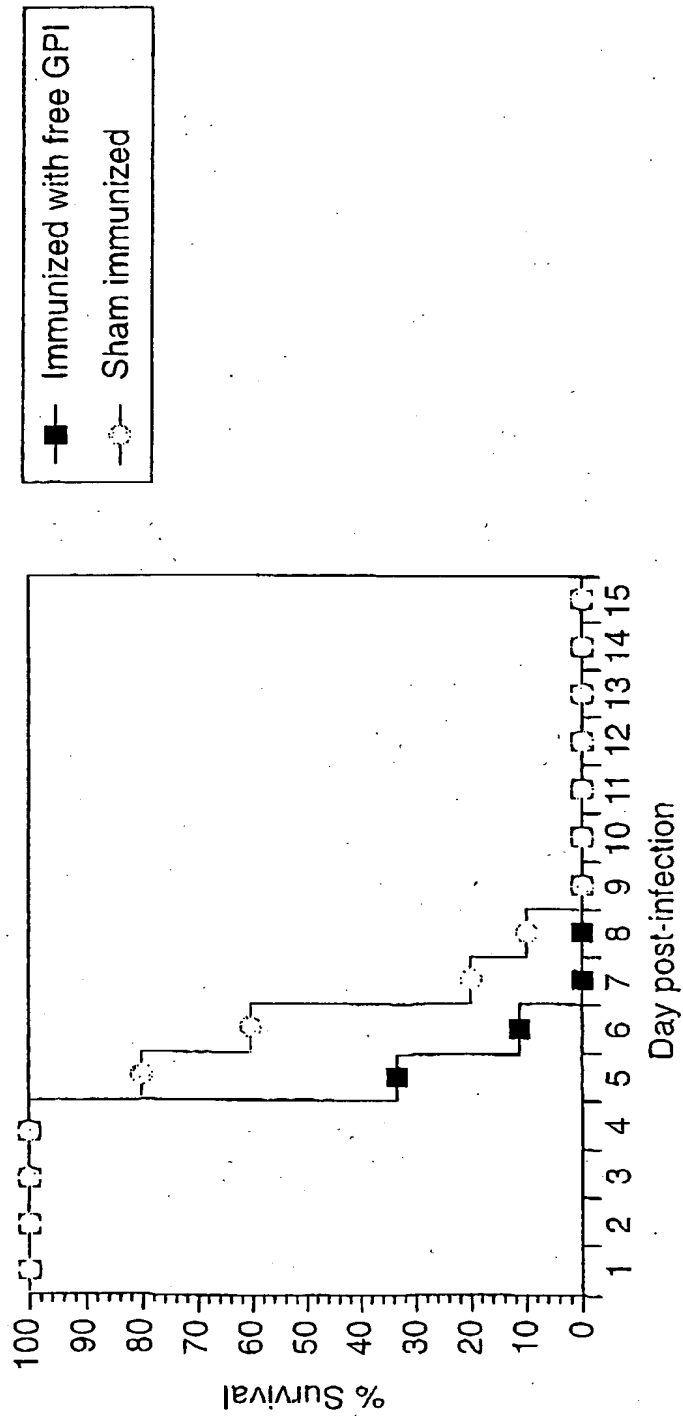


Figure 2

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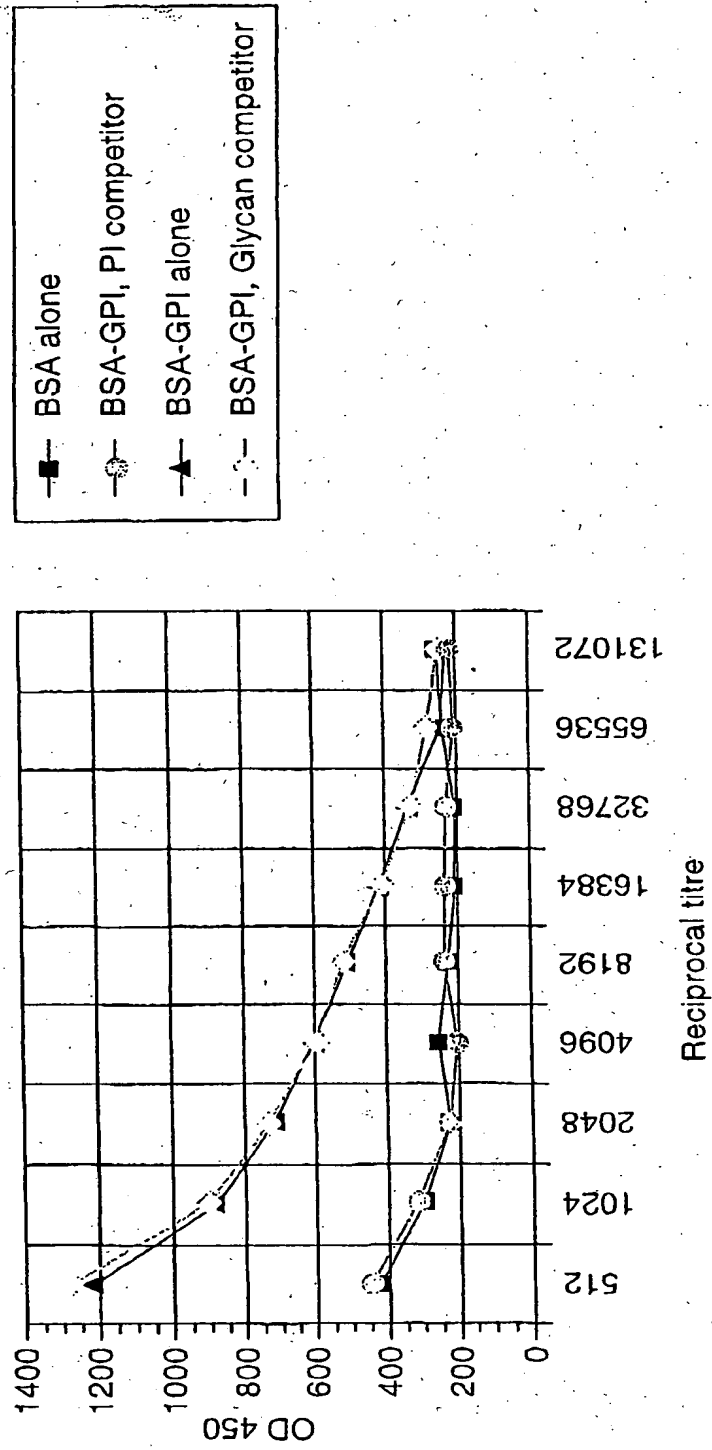


Figure 3

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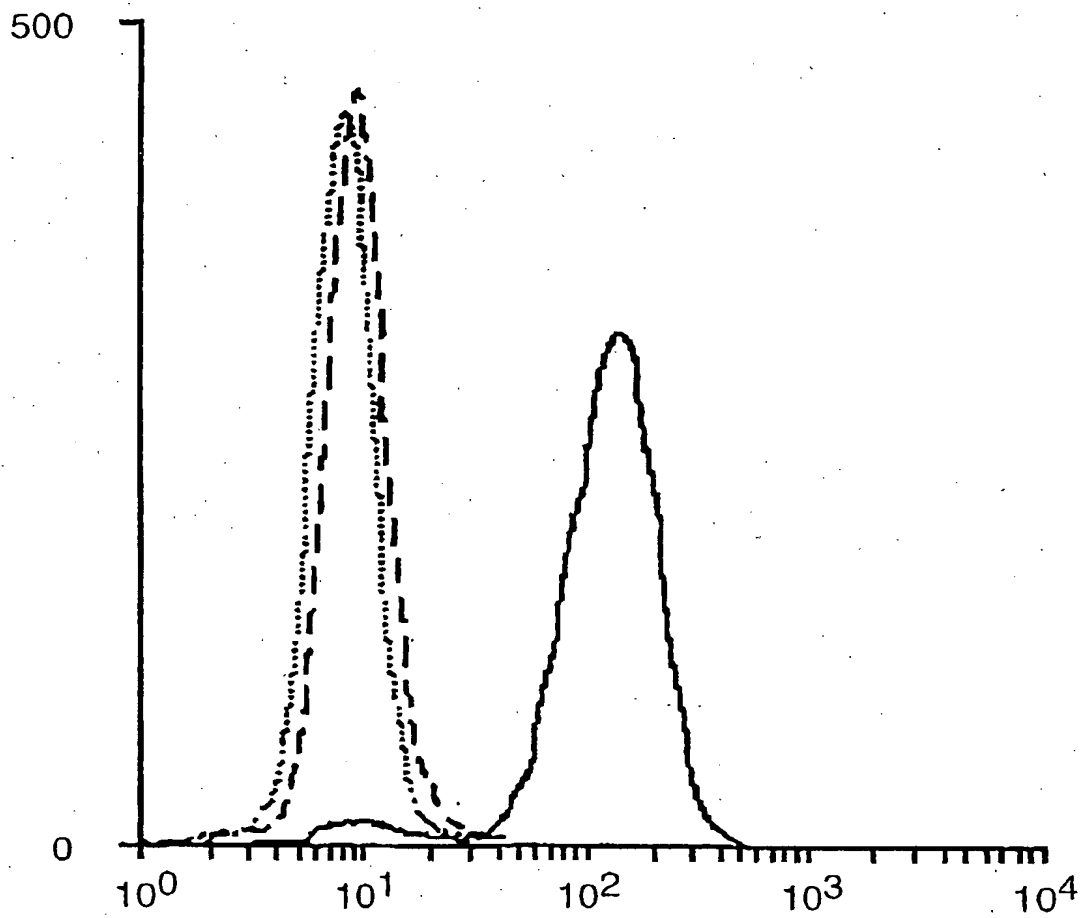


Figure 4

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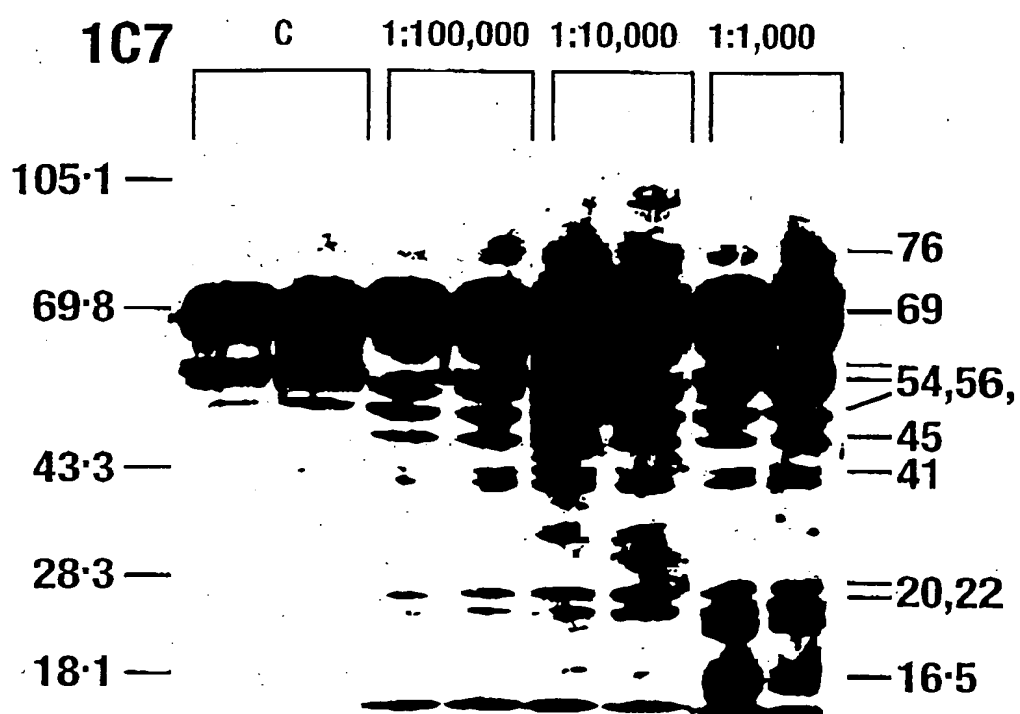


Figure 5

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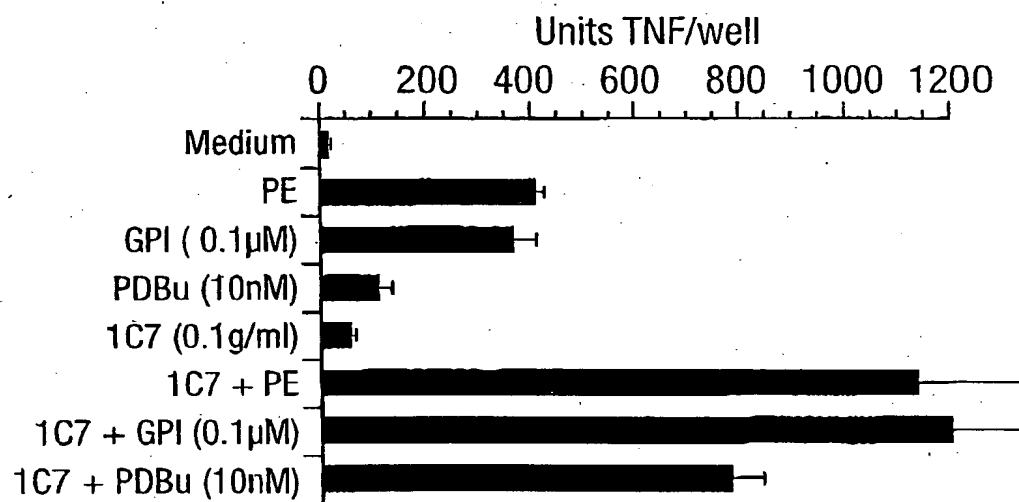


Figure 6

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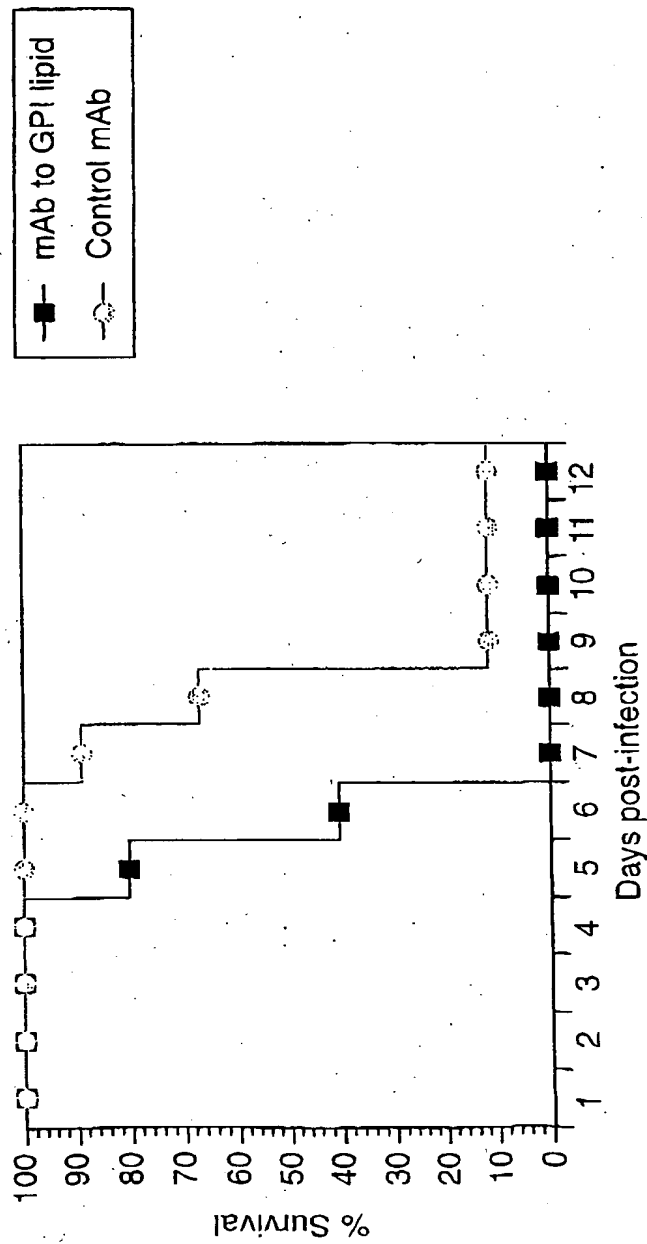


Figure 7

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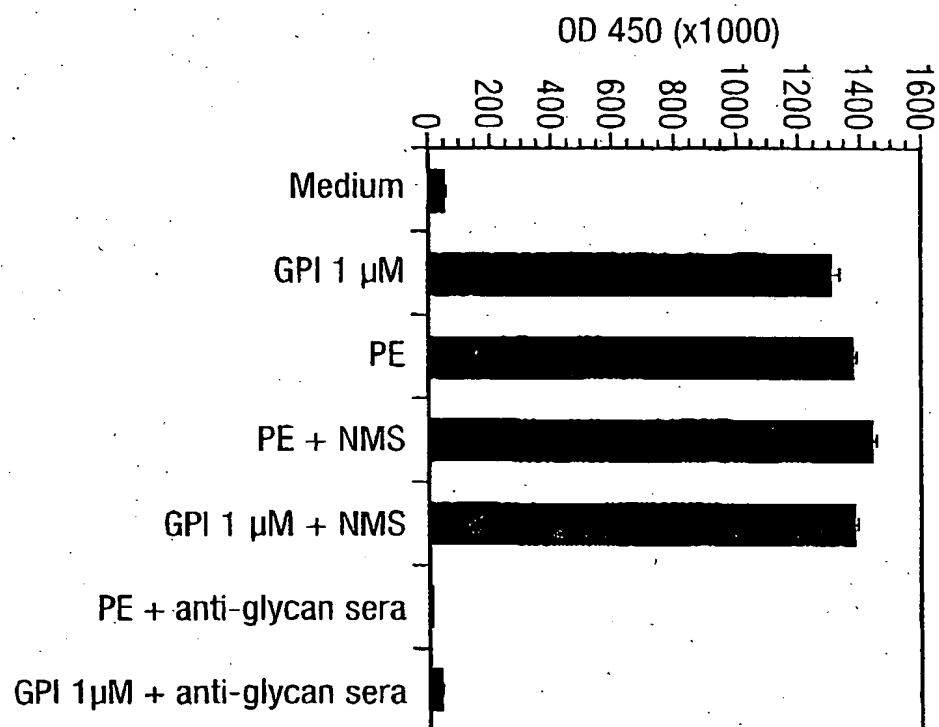


Figure 8

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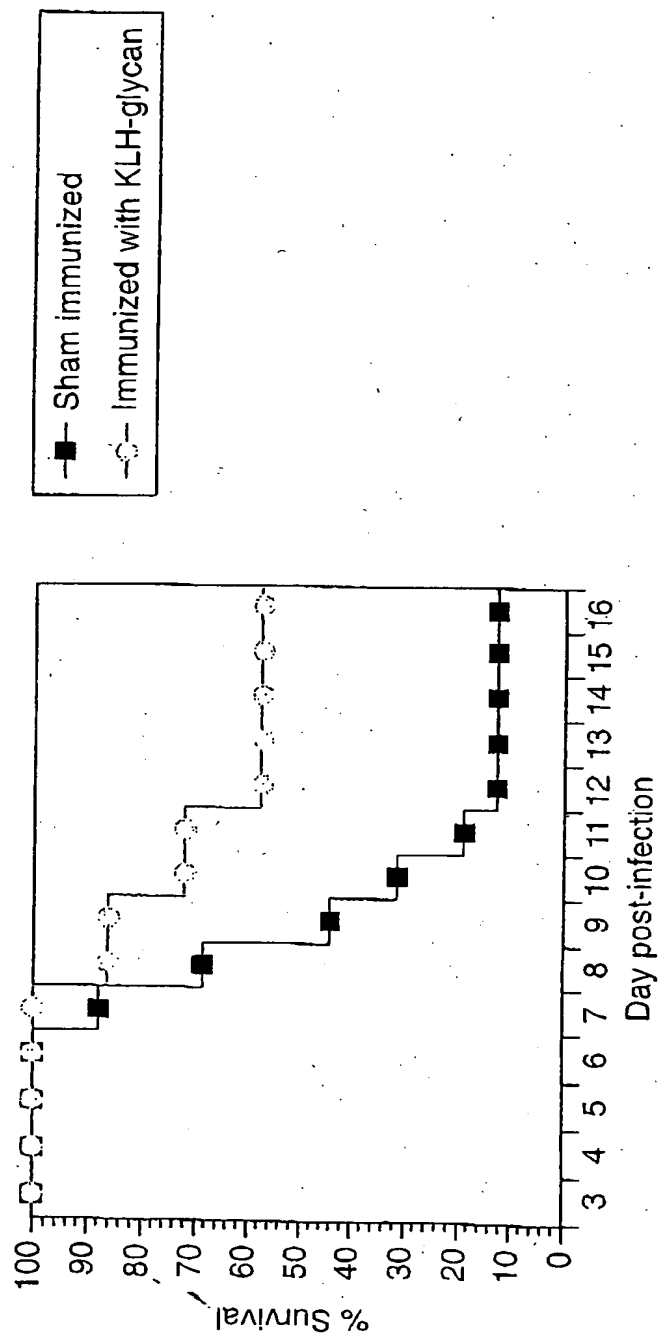


Figure 9

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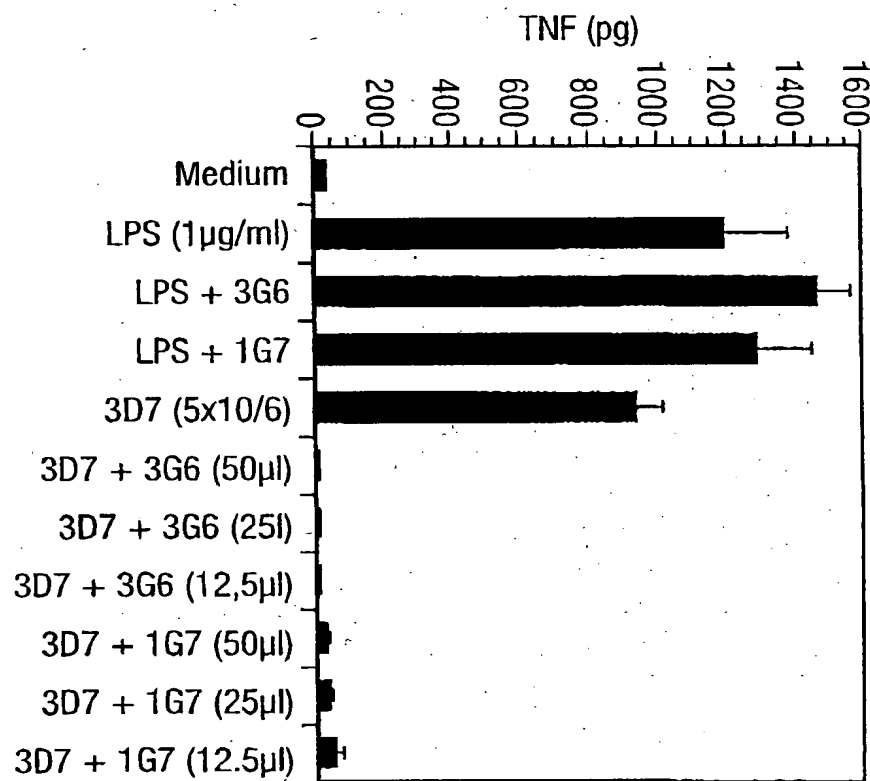


Figure 10

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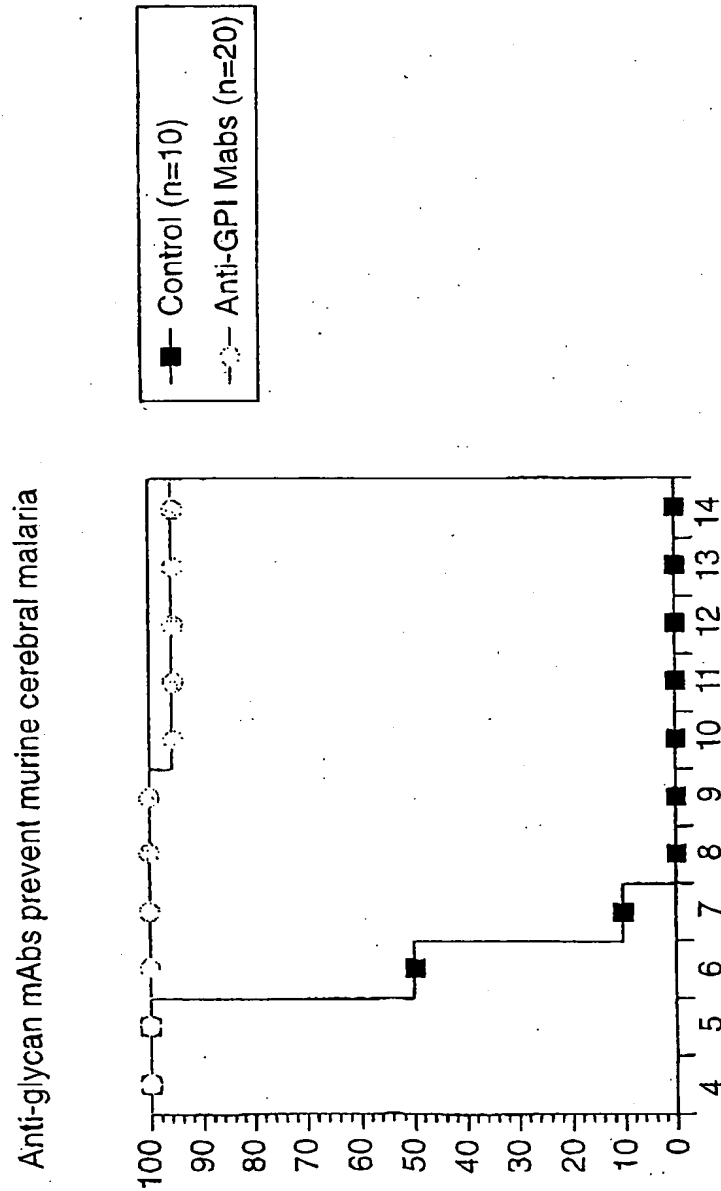


Figure 11

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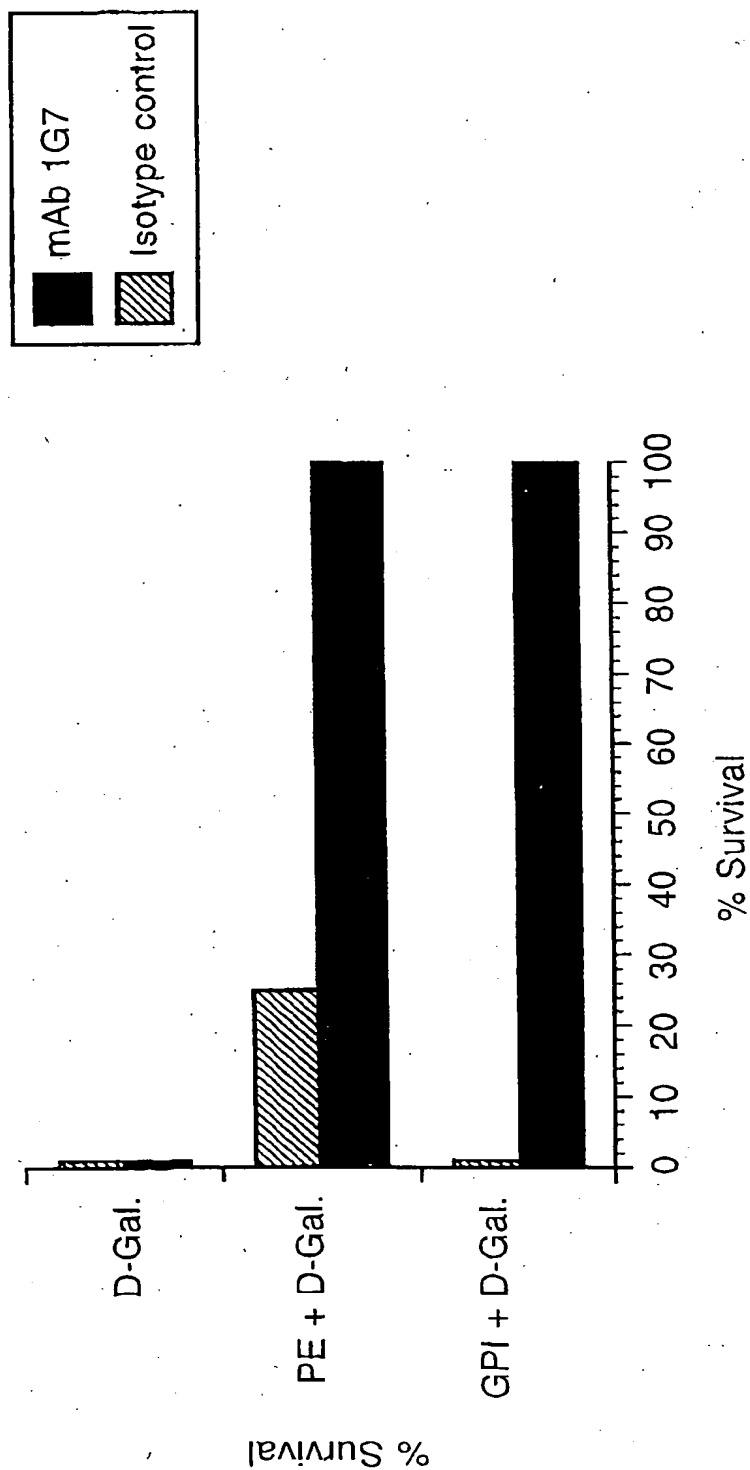


Figure 12

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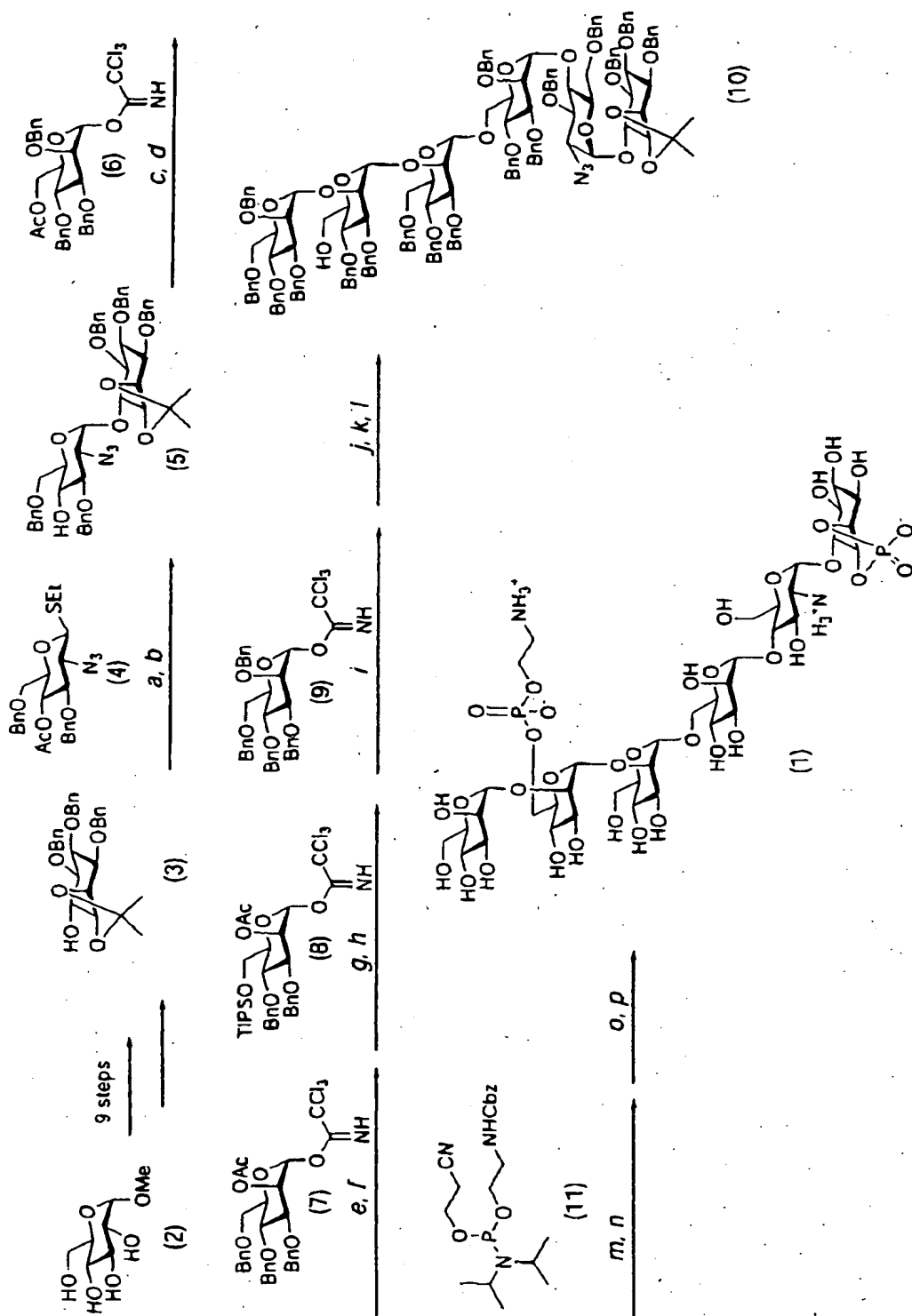


Figure 13

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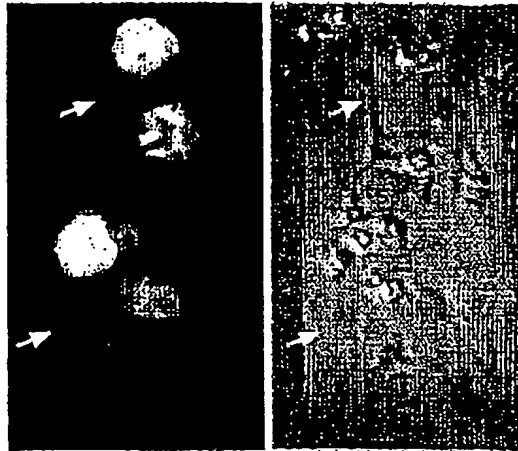


Figure 14a

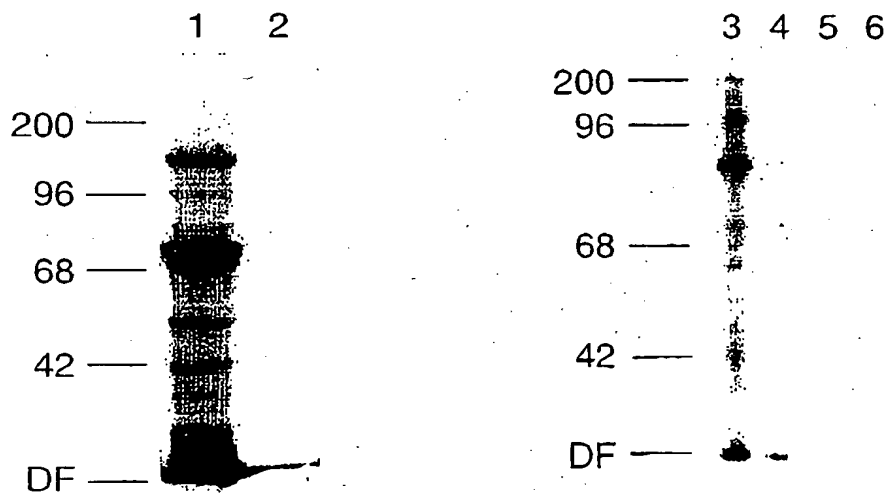


Figure 14b

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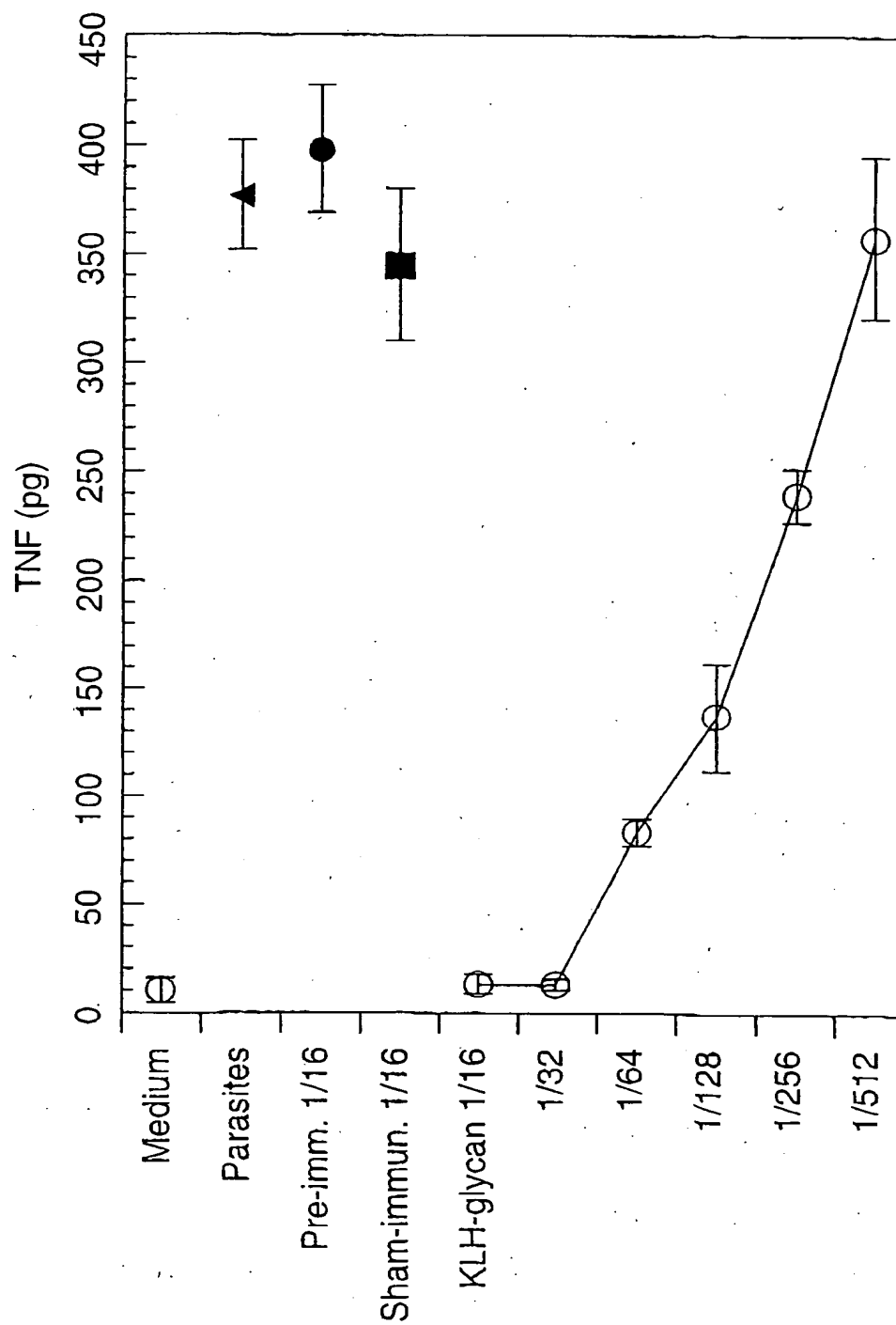


Figure 14

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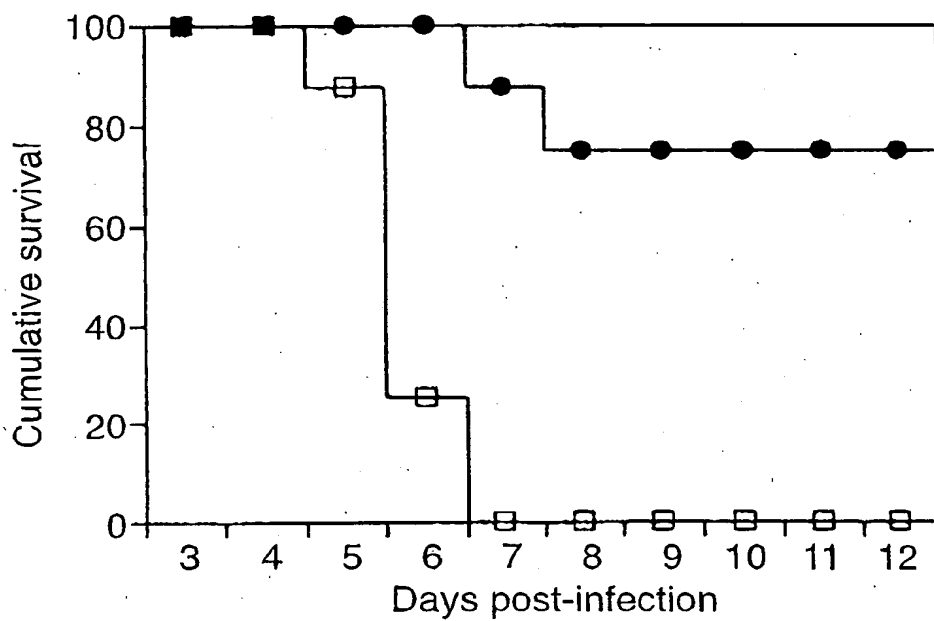


Figure 15a

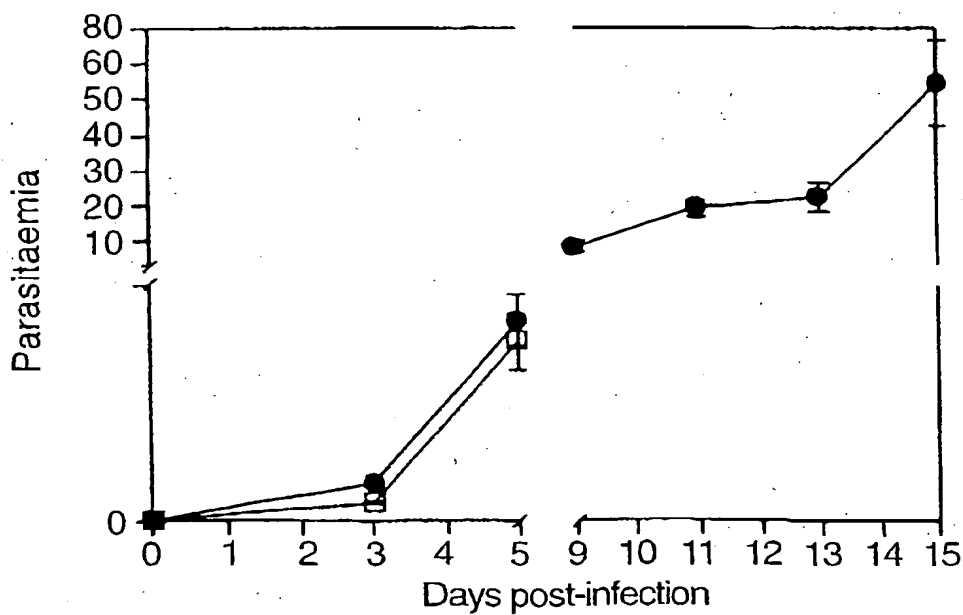


Figure 15b

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Figure 15c

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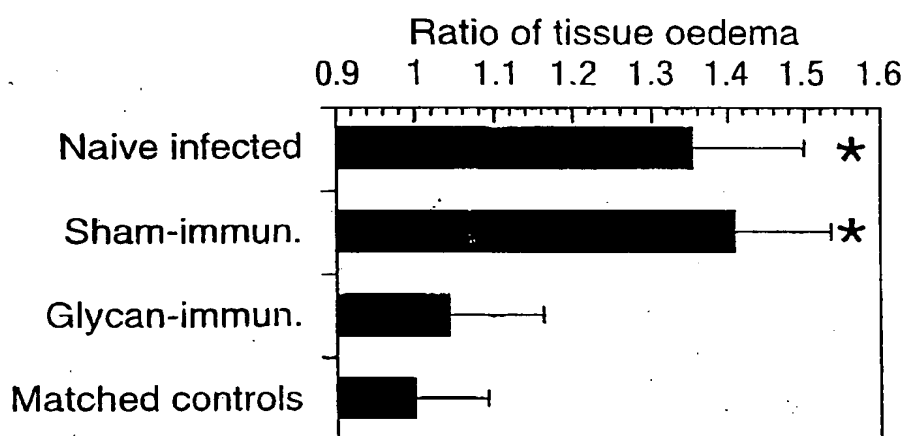


Figure 15 d

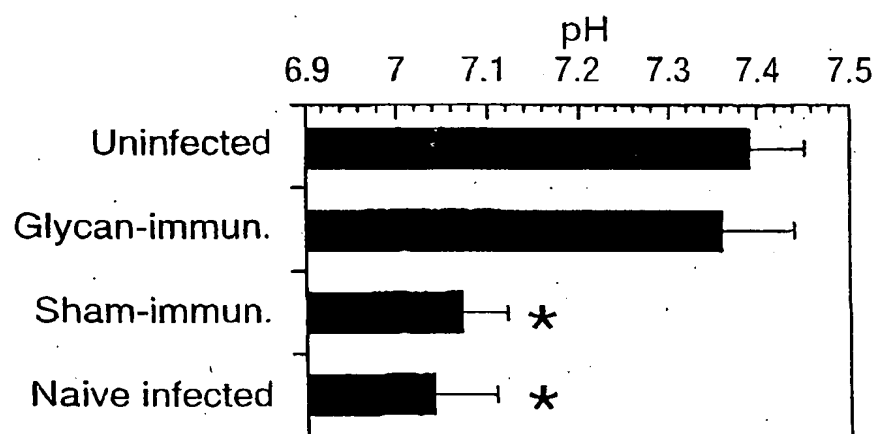


Figure 15 e

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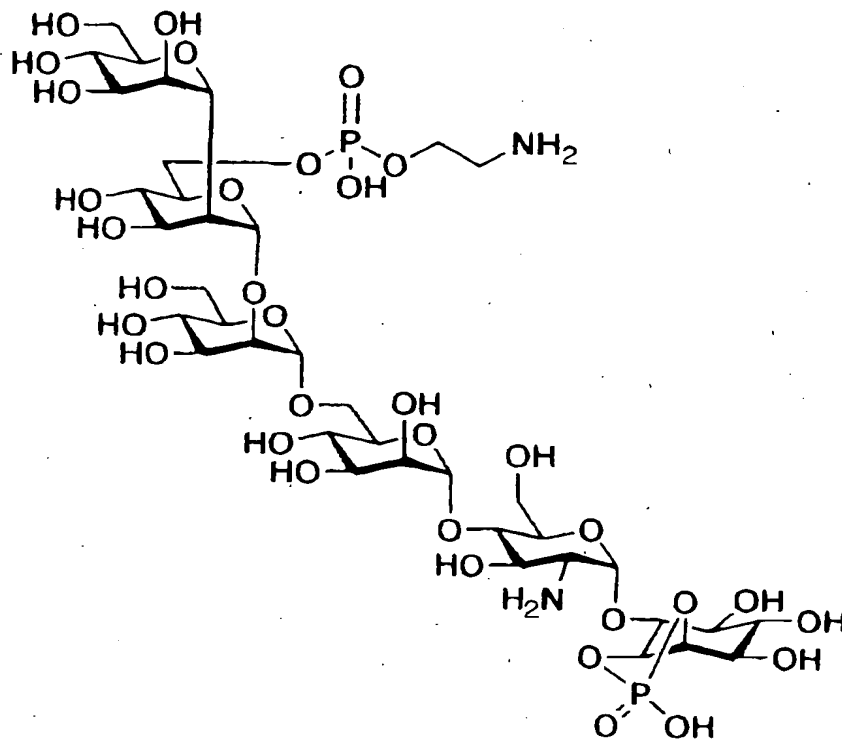


Figure 16

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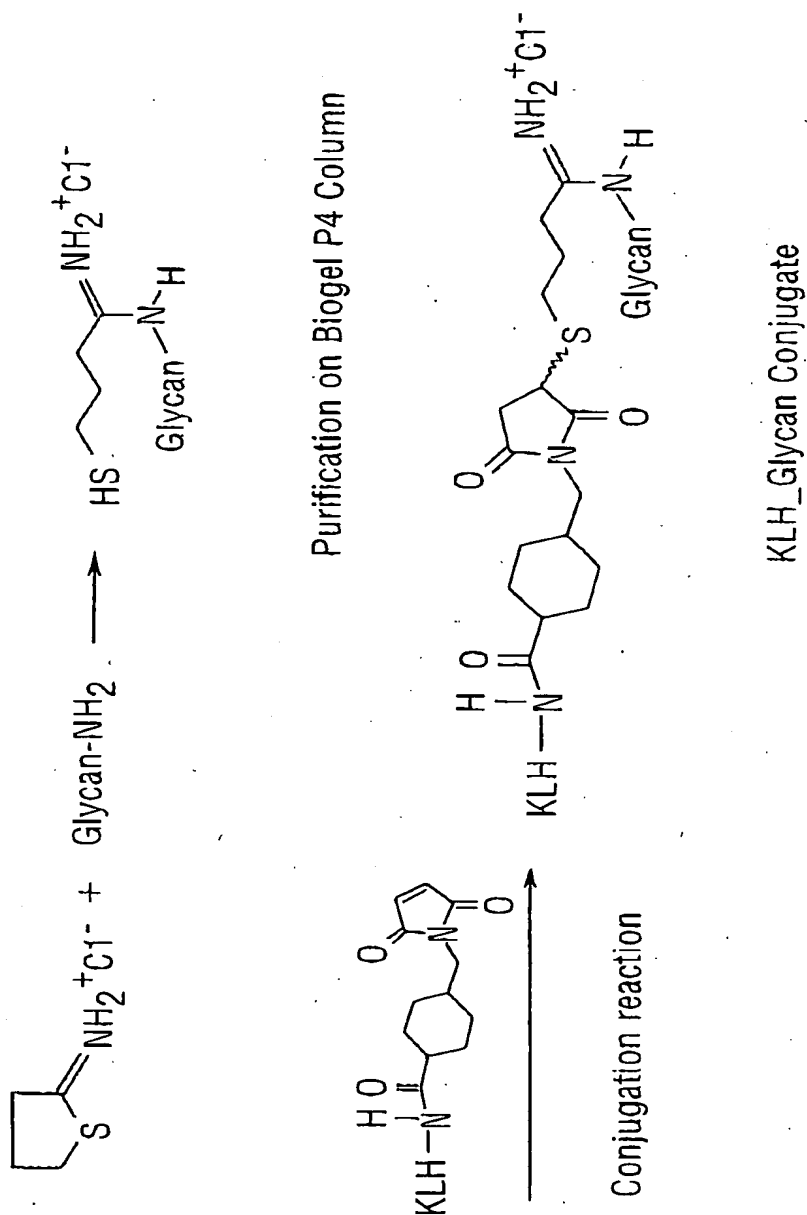


Figure 17

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Protein	MW	Maleimide groups	Conjugation Ratio	Glycan (ng / ug)
OVA	45 000	8 moles per mole OVA	3 : 1 (molar)	84
KLH	8 000 000	479 moles per mole KLH	191 : 1 (molar)	28
BSA	67 000	17 moles per mole BSA	NA	-

Figure 18

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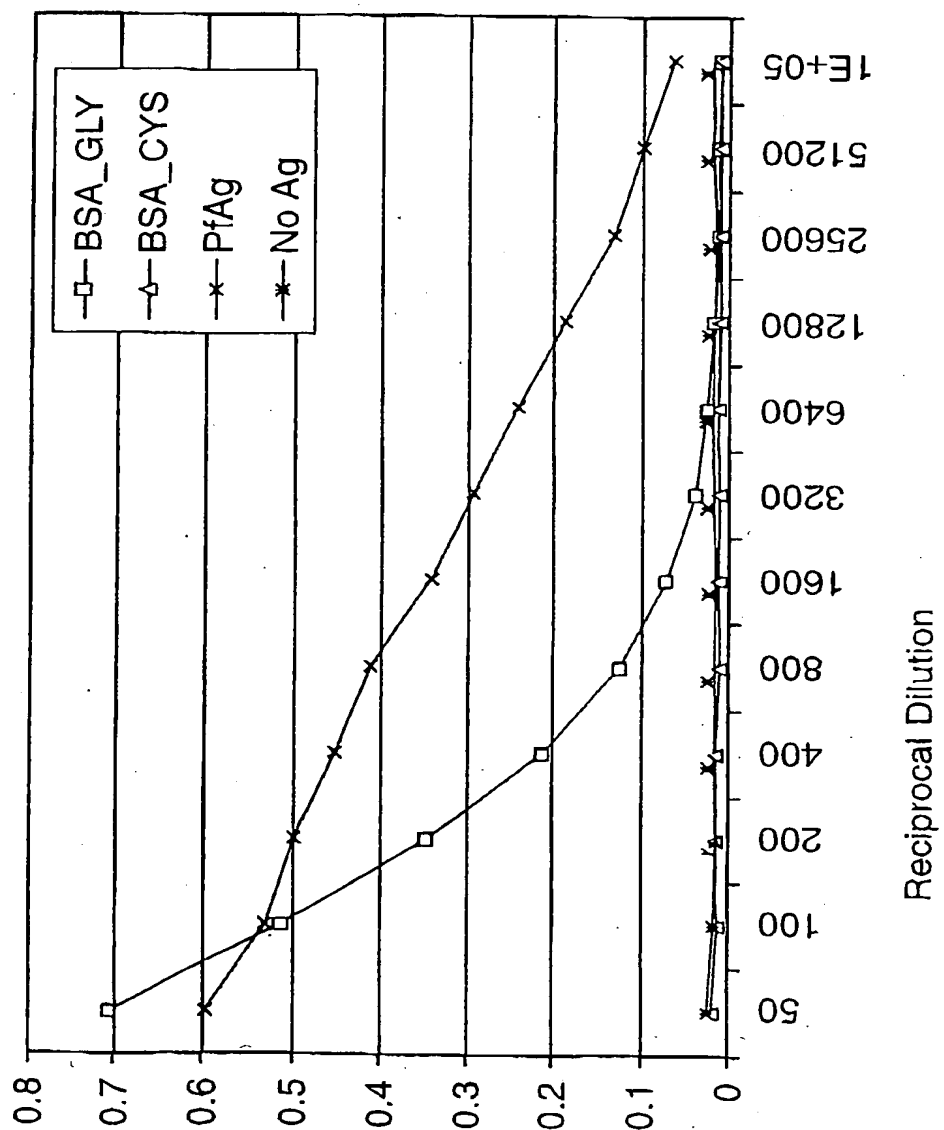


Figure 19

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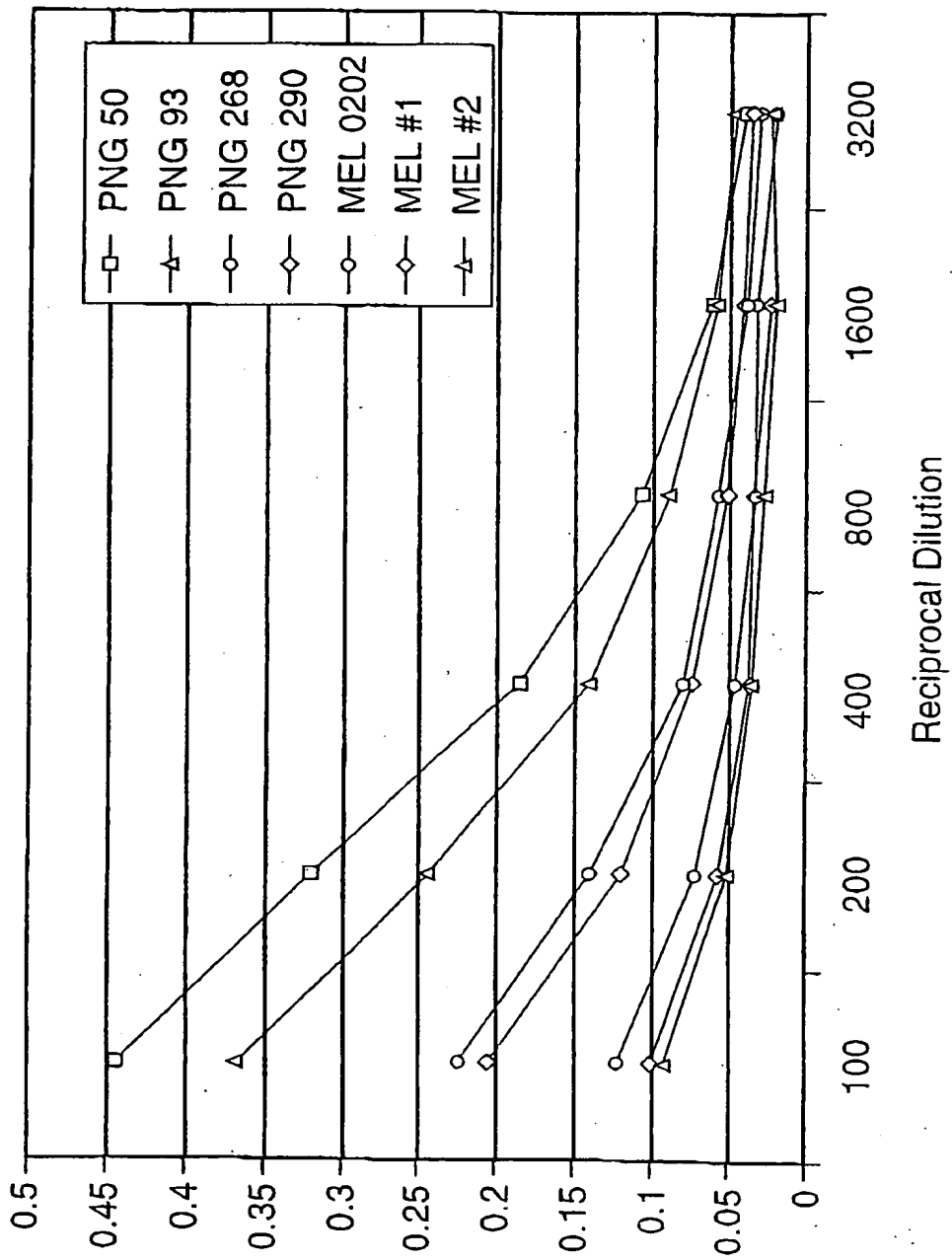
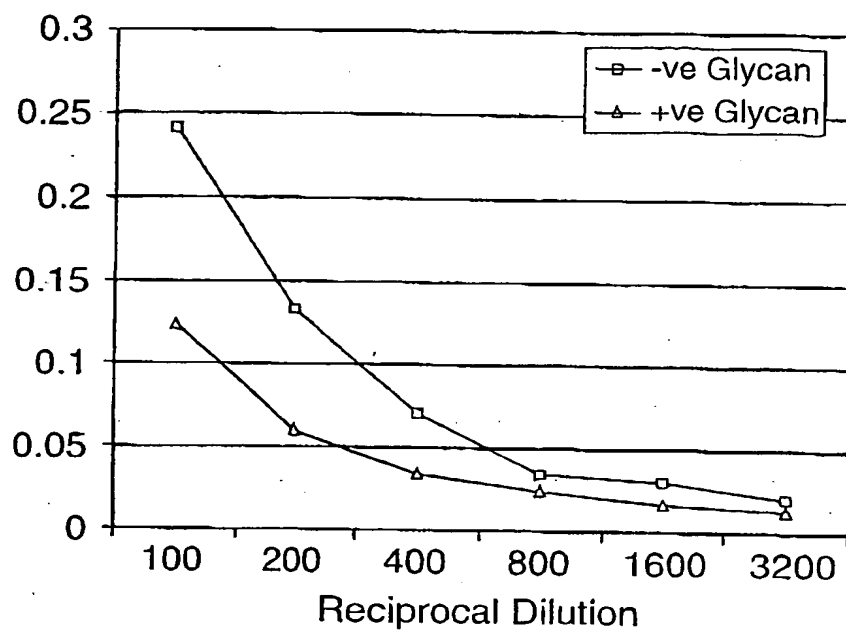


Figure 20

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Molar Excess Synthetic Glycan	Percentage reduction
0	0
25	76
50	89
100	95

Figure 21